

DERWENT-ACC-NO: 1999-096615

DERWENT-WEEK: 199909

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TITLE: Method and device for  
distinguishing transmission line  
fault direction - includes  
measuring both voltage and  
current fault components

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PRIORITY-DATA: 1997CN-0125201 (December 23, 1997)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE
CN 1195775 A		October 14, 1998
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APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR
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INT-CL (IPC): G01R031/08

ABSTRACTED-PUB-NO: CN 1195775A

BASIC-ABSTRACT:

The present invention relates to a method for  
recognizing fault direction of

transmission line and its equipment. It is characterized by that measuring fault component of current and fault component of voltage; multiplication of both fault components and integration to obtain the fault energy, and when said energy value is negative, the fault occurs at positive direction, and when said energy value is positive, the fault occurs at negative direction. Its correspondent equipment may use static type, also may be digital type.

ADVANTAGE - As compared with existent technique, said invention possesses the advantages of rapid recognizing speed, resisting fault transient harmonic interference, accurate and reliable recognizing result, and is applicable for recognizing fault direction of single-phase ground connection of high-voltage transmission line, neutral-point indirectly-grounded power transmission system and power generator, etc.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: METHOD DEVICE DISTINGUISH TRANSMISSION  
LINE FAULT DIRECTION  
MEASURE VOLTAGE CURRENT FAULT COMPONENT

DERWENT-CLASS: S01

EPI-CODES: S01-G05; S01-H02;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1999-070196